

Attachment A

1. A method, comprising:

transmitting a data packet from at least one sending device to at least one receiving device at different rates and in different channels using Asynchronous Layered Coding (ALC) with congestion control and Forward Error Coding (FEC);

determining at said receiving device missing or mangled data transmitted from said sending device using negative acknowledgement (NACK)-Oriented Reliable Multicast (NORM) protocols at the receiving device

sending an acknowledgement or transmission of missing or mangled data from said receiving device to said sending device or to another receiving device;

transmitting a retransmission of said missing or mangled data from said sending device or said other receiving device to complete the data packet and a data transmission session.

21. A computer readable medium including program code, executable in a computer s, comprising:

program code for transmitting a data packet from at least one sending device to at least one receiving device at different rates and in different channels using Asynchronous Layered Coding (ALC) with congestion control and Forward Error Coding (FEC);

program code for determining missing or mangled data transmitted from said sending device using negative acknowledgement (NACK)-Oriented Reliable Multicast (NORM) protocols at the receiving device with FEC for repair of damaged packets or packets that have not been received ;

program code for sending an acknowledgement or transmission of missing or mangled data to said sending device or to another receiving device;

program code for transmitting a retransmission of said missing or mangled data from said sending device or said other receiving device to complete transmission of data packet and a data transmission session.

40. Previously Amended) A system comprising.

at least one sending device for transmitting data to at least one receiving device at different rates and in different channels using Asynchronous Layered Coding (ALC) with congestion control and Forward Error Coding (FEC);

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at least one receiving device for determining missing or mangled data transmitted from said sending device using negative acknowledgement (NACK)-Oriented Reliable Multicast (NORM) protocols at the receiving device with FEC for repair of damaged packets or packets that have not been received ; and

sending an acknowledgement or transmission of missing or mangled data to said sending device or to another receiver regarding retransmission of at least missing or mangled data;

at least one network for establishing communication between said sending device and said receiving device as well as communication between receiving devices in the network; and

transmitting a retransmission of said missing or mangled data from said sending device or said other receiving device in the same or different networks to complete the data packet and a data transmission session.

58 An apparatus, comprising:

at least one processor for determining missing or mangled data in a data transmission sent by a sending device using Asynchronous Layered Coding (ALC) with congestion control and Forward Error Coding (FEC);

a negative acknowledgement (NACK) and transmission mechanism for sending an acknowledgement or transmission of missing and mangled data to said sending device or to another receiving device with FEC for repair of damaged packets or packets that have not been received ;

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at least one network for establishing communication between said sending device and said receiving device as well as communication between receiving devices in the network;

transmitting a retransmission of said missing or mangled data from said sending device or said other receiving device in the same or different networks to complete the data packet and a data transmission session;

and

a memory including a processor, operating system and application programs for and storing the data transmission from the sending device or other receiving device.